

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/004427

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C07C251/80, 251/86, 317/44, 323/25, 323/60, 323/66,
C07D207/18, 211/46, 211/58, 211/60, 213/32, 213/44, 213/81,
231/04, 241/04, 243/08, 261/18, 249/12, 257/04, 295/08, 295/12,

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C07C251/80, 251/86, 317/44, 323/25, 323/60, 323/66,
C07D207/18, 211/46, 211/58, 211/60, 213/32, 213/44, 213/81,
231/04, 241/04, 243/08, 261/18, 249/12, 257/04, 295/08, 295/12,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CA (STN), REGISTRY (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/53208 A2 (NPS ALLELIX CORP.), 14 September, 2000 (14.09.00), Full text (Family: none)	1-8, 16, 24, 25, 27-30, 32, 34, 46-52, 56, 66
X	HODA A. ABDEL-HAMID, SAYED A. SHIBA, ABDEL-MOMEN A. EL-KHAMRY, AHMED S.A. YOUSSEF, "SYNTHESIS OF SOME BIOLOGICALLY ACTIVE HETEROCYCLES. REACTIONS OF THE HYDRAZIDE OF 2'-THIENOYL ANTHRANIC ACID AND ITS 3,5-DIBROMO DERIVATIVE", Phosphorus, Sulfur and Silicon and the Related Elements, 1982, Vol.72, No.1-4, pages 237 to 247	1-8, 16, 24, 26-30, 32, 36, 46-52, 56, 66

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
05 July, 2004 (05.07.04)Date of mailing of the international search report
10 August, 2004 (10.08.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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INTERNATIONAL SEARCH REPORT

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PCT/JP2004/004427

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2-277073 A (Dainichiseika Color & Chemicals Mfg. Co., Ltd.), 13 November, 1990 (13.11.90), Full text & EP 613055 A1	1-8, 16, 24, 25, 46-52
X	DJORDIE VLAOVIC, BOZIDAR LJ. MILIC, KENNETH MACKENZIE, "Modified Procedure for the Preparation of 5-Nitro-2-furylmethyl Diacetate and Its Use in the Synthesis of Some Novel (5-Nitro-2-furyl) azomethines via 5-Nitro-2-furaldehyde", Journal of Chemical Research, Synopses, 1989, No.6, pages 156 to 157	1-8, 16, 24, 25, 27-30, 32, 34, 46-52, 56
X	H.A. ZAHER, H. JAHINE, Y. AKENOOKH, Z. EL-GENDY, "Reactions of 2-p-Anisyl-3(4H), 1-benzoxazin-4-one with ammonia, Primary Amines, Hydrazine, Phenylhydrazine & Grignard Reagents, "Indian Journal of Chemistry, 1974, Vol.12, No.11, pages 1212 to 1215	1-8, 16, 24, 25, 27-30, 32, 34, 38, 46-52, 56, 57
X	FR 2168136 A (FERLUI), 31 August, 1973 (31.08.73), Full text (Family: none)	1-8, 16, 24, 25, 27-30, 32, 34, 38, 46-52, 56, 57, 66
X	S.G. ABDEL-HAMIDE, "Synthesis and Chemistry of some Novel 3-Heteroaryl-quinazolin-4-one Derivatives and their Antimicrobial Effects", Journal of the Indian Chemical Society, 1997, Vol.74, No.8, pages 619 to 623	1-7, 9, 10, 16, 24, 25, 27-30, 32, 34, 46-52, 56
X	M.B. DESHMUKH, D.S. DESHMUKH, "Synthesis and Biological Activity of some New Quinazolinyl Thazolidinones and Azetidinones", Journal of the Indian Chemical Society, 1995, Vol.72, No.12, pages 847 to 848	1-8, 16, 24, 25, 27-30, 32, 34, 46-52, 56
X	Mohamed F. Abdel-Megeed, A. Teniou, "Magnetic Anisotropic Effect As Demonstrated by High Resolution PMR in Some Benzoxazinones, Quinazolinones and Their Thino Analogues", Spectroscopy Letters, 1987, Vol.20, No.8, p.583-390	1-7, 9, 10, 16, 24, 25, 27-30, 32, 34, 46-52, 56
X	Padi PRATAP REDDY, Cheppala KISTA REDDY, Padala SATYANARAYANAN. REDDDY, "Reaction of 2-Amino benzohydrazides with Schiff Bases. A New Route to 3-Benzylideneamino-4(3H)-quinazolines and 2-[2-(methylamino-phenyl)-5-aryl-1,3,4-oxadiazoles", Bulletin of the Chemical Society of Japan, 1986, Vol.59, No.5, pages 1575 to 1580	1-8, 16, 24, 25, 27-30, 32, 34, 38, 46-52, 56, 57

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	M.I. HUSAIN, SARVESHWAR SHUKLA, "Synthesis & Biological Activities of 3-(2'-Aryl-4'-oxothazolidin-3'-yl)-2-phenylquinazolin-4(3H)-ones", Indian Journal of Chemistry, Section B:Organic Chemistry Including Medicinal Chemistry, 1986, Vol.25B, No.5, pages 545 to 548	1-8,16,24, 25,27-30,32, 34,46-52,56, 66
X	Eisaku HAYASHI et al., "Kanzo Hydrazide Kozo o Fukumu Fukusokan Kagobutsu no Gosei to Sono Koshuyosei ni Tsuite", Journal of the Pharmaceutical Society of Japan, 1978 Nen, Vol.98, No.11, pages 1560 to 1565	1-8,16,24, 25,27-30,32, 34,38,46-52, 56,57,66
X	A.M. ABBADY, M. ANWAR, M.F. ABDEL-MEGEED, "2-ARYL-3-AMINE-4-QUINAZOLINONES", Acta Chimica.Academiae Scientiarum Hungaricae, 1976, Vol.91, No.3, pages 341 to 349	1-8,16,24, 25,27-30,32, 34,38,46-52, 56,57,66
X	M.M. El Kerdawy, M.Y. Yousif, A.A. El Emam, M.A. Moustafa, M.A. El-sherbeny, "Synthesis of Cartain Benzoxazine and Quinazoline Derivatives as Potential Antiinflammatory Agents", Egyptian Journal of Pharmaceutical Sciences, 1994, Vol.35, No.1-6, pages 1 to 20	1-7,9,10,16, 24,26-30,32, 36,46-52,56
X	M. Fekry Ismail, Abdel Momen A. El-Khamry, Fekria S. Sayed, Samir A. Emara, "Reaction of 6,8-Dibromo-2-Phenyl-3,1-Benzoxazin-4-One with Hydrazines, Schiff Bases and Azines", Egyptian Journal of Chemistry, 1991, Vol.32, No.4, pages 433 to 444	1-7,24,25, 27-30,32,34, 46-52,56
P,X	Manjusha Verma, Sundaram Singh, K.M. Singh, "SYNTHESIS OF SOME NEW BENZOXAZINE DERIVATIVES OF BIOLOGICAL INTEREST, Heterocyclic Communications, 2003, Vol.9, No.5, pages 499 to 502	1-8,16,24, 25,27-30,32, 34,38,46-52, 56,57